

PATENT ABSTRACTS OF JAPAN

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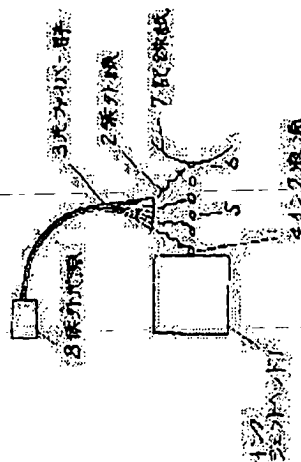
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(54) INK JET RECORDER

(57)Abstract:

PURPOSE: To eliminate osmosis of ink by raising viscosity of photosensitive liquid ink having low viscosity and scarcely causing clogging by radiating a light ray having curing action immediately after discharging from an ink jet head and then adhering it to a recording sheet.

CONSTITUTION: Ink droplets 4, 5, 6 discharged from an ink jet head 1 are radiated with an ultraviolet ray until they are adhered to a recording sheet 7 thus promoting the curing reaction and enhancing the viscosity. An ultraviolet ray 2 is guided from an ultraviolet source 8 via an optical fiber 3, and not radiated to ink in the head 1. The ink contains, for example, 1,6-hexadiol diacrylate monomer having fast curing speed as a main ingredient in order to enhance its viscosity several ms before adhering to the sheet 7. The ink is radiated with the ray even after it is adhered to the sheet 7, and completely cured. The droplets are discharged from openings selectively based on a signal fed from a head driver to form a recording image on the sheet 7. Thus, the ink is not clogged in the nozzle, and not oozed on a recording medium to be recorded.



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